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NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	Jun 03	New e-mail delivery for search results now available
NEWS 4	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 5	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS 6	Aug 26	Sequence searching in REGISTRY enhanced
NEWS 7	Sep 03	JAPIO has been reloaded and enhanced
NEWS 8	Sep 16	Experimental properties added to the REGISTRY file
NEWS 9	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS 10	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS 11	Oct 24	BEILSTEIN adds new search fields
NEWS 12	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 13	Nov 18	DKILIT has been renamed APOLLIT
NEWS 14	Nov 25	More calculated properties added to REGISTRY
NEWS 15	Dec 04	CSA files on STN
NEWS 16	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 17	Dec 17	TOXCENTER enhanced with additional content
NEWS 18	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS 19	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS 20	Feb 13	CANCERLIT is no longer being updated
NEWS 21	Feb 24	METADEX enhancements
NEWS 22	Feb 24	PCTGEN now available on STN
NEWS 23	Feb 24	TEMA now available on STN
NEWS 24	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS 25	Feb 26	PCTFULL now contains images
NEWS 26	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
NEWS 27	Mar 20	EVENTLINE will be removed from STN
NEWS 28	Mar 24	PATDPAFULL now available on STN
NEWS 29	Mar 24	Additional information for trade-named substances without structures available in REGISTRY
NEWS 30	Apr 11	Display formats in DGENE enhanced
NEWS 31	Apr 14	MEDLINE Reload
NEWS 32	Apr 17	Polymer searching in REGISTRY enhanced
NEWS 33	Jun 13	Indexing from 1947 to 1956 added to records in CA/CAPLUS
NEWS 34	Apr 21	New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
NEWS 35	Apr 28	RDISCLOSURE now available on STN
NEWS 36	May 05	Pharmacokinetic information and systematic chemical names added to PHAR
NEWS 37	May 15	MEDLINE file segment of TOXCENTER reloaded
NEWS 38	May 15	Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS 39	May 16	CHEMREACT will be removed from STN
NEWS 40	May 19	Simultaneous left and right truncation added to WSCA
NEWS 41	May 19	RAPRA enhanced with new search field, simultaneous left and right truncation
NEWS 42	Jun 06	Simultaneous left and right truncation added to CBNB
NEWS 43	Jun 06	PASCAL enhanced with additional data
NEWS 44	Jun 20	2003 edition of the FSTA Thesaurus is now available

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 NEWS 45  Jun 25  HSDB has been reloaded

 NEWS EXPRESS  April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
               MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
               AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
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 NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
 NEWS WWW      CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 08:55:51 ON 07 JUL 2003

=> fil reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    0.84       0.84

FILE 'REGISTRY' ENTERED AT 08:57:59 ON 07 JUL 2003
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STRUCTURE FILE UPDATES:    4 JUL 2003  HIGHEST RN 542812-68-0
DICTIONARY FILE UPDATES:   4 JUL 2003  HIGHEST RN 542812-68-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available.  See HELP
PROPERTIES for more information.  See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> s 'gly-pro-arg-pro-pro'/sqefp
           128 'GLY''PRO''ARG''PRO''PRO'/SQEFP
         53435 SQL=5
L1         128 'GLY-PRO-ARG-PRO-PRO'/SQEFP
               ('GLY''PRO''ARG''PRO''PRO'/SQEFP AND SQL=5)

=> s 'gly-ala-gly-gly'/sqefp
          2063 'GLY''ALA''GLY''GLY'/SQEFP
         55928 SQL=4
L2        2063 'GLY-ALA-GLY-GLY'/SQEFP
               ('GLY''ALA''GLY''GLY'/SQEFP AND SQL=4)
```

```
=> s 'gly-pro-arg'/sqefp
           150 'GLY''PRO''ARG'/SQEFP
          1450 SQL=3
L3         150 'GLY-PRO-ARG'/SQEFP
                ('GLY''PRO''ARG'/SQEFP AND SQL=3)

=> fil .search
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      20.10      20.94

FILE 'MEDLINE' ENTERED AT 09:00:03 ON 07 JUL 2003

FILE 'CAPLUS' ENTERED AT 09:00:03 ON 07 JUL 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE 'BIOSIS' ENTERED AT 09:00:03 ON 07 JUL 2003
COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS INC.(R)

FILE 'USPATFULL' ENTERED AT 09:00:03 ON 07 JUL 2003
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=> d his

     (FILE 'HOME' ENTERED AT 08:55:51 ON 07 JUL 2003)

     FILE 'REGISTRY' ENTERED AT 08:57:59 ON 07 JUL 2003
L1          128 S 'GLY-PRO-ARG-PRO-PRO'/SQEFP
L2         2063 S 'GLY-ALA-GLY-GLY'/SQEFP
L3          150 S 'GLY-PRO-ARG'/SQEFP

     FILE 'MEDLINE, CAPLUS, BIOSIS, USPATFULL, EMBASE' ENTERED AT 09:00:03 ON
     07 JUL 2003

=> s l3 and l1
L4            1 L3 AND L1

=> d ibib ab
```

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1996:331937 CAPLUS
DOCUMENT NUMBER: 125:79699
TITLE: Synthetic collagen-like domain derived from the macrophage scavenger receptor binds acetylated low-density lipoprotein in vitro
AUTHOR(S): Tanaka, Toshiki; Nishikawa, Akemi; Tanaka, Yuji; Nakamura, Haruki; Kodama, Tatuhiko; Imanishi, Takeshi; Doi, Takefumi
CORPORATE SOURCE: Protein Eng. Res. Inst., Osaka, 565, Japan
SOURCE: Protein Engineering (1996), 9(3), 307-313
CODEN: PRENE9; ISSN: 0269-2139
PUBLISHER: Oxford University Press
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The bovine macrophage scavenger receptor is a 70 kDa membrane protein that is trimerized on the macrophage cell surface. The receptor binds modified low-d. lipoproteins (LDL). The core binding site is located within 22 residues at the C-terminus of the collagen-like domain of the receptor. The Lys residue at position 337 plays an important role in ligand binding. Here, the collagen-like domain was constructed using a peptide architecture technique, in which three collagenous peptide chains were crosslinked at their N-termini. The crosslinked peptide showed a collagen-like structure by CD and existed mainly in a monomeric triple helical form as shown by gel exclusion chromatog. The triple-stranded peptide was demonstrated to bind acetylated LDL (Ac-LDL) using regions derived. from Gly323 to Lys-340 of the natural bovine scavenger receptor. However, a single-stranded peptide with the same amino acid sequence did not bind Ac-LDL. Furthermore, a triple-stranded mutated peptide in which Lys corresponding to Lys337 in the mother protein was substituted with Ala showed no binding activity to Ac-LDL. These results, taken together, indicate that the synthetic collagen-like peptide has a similar structure to the binding site in the scavenger receptor, and support the view that the collagen-like domain of the natural scavenger receptor recognizes Ac-LDL.

```
=> s l4 and (chelat? or ligand?)
L5            1 L4 AND (CHELAT? OR LIGAND?)

=> s l5 and (radiolabel? or label? or radionuclid? or radioisotop? or radioactiv?)
L6            0 L5 AND (RADIOLABEL? OR LABEL? OR RADIONUCLID? OR RADIOISOTOP?
                OR RADIOACTIV?)

=> s l3 and l2
L7            7 L3 AND L2

=> dup rem l7
PROCESSING COMPLETED FOR L7
L8             6 DUP REM L7 (1 DUPLICATE REMOVED)

=> d ibib ab 1-
YOU HAVE REQUESTED DATA FROM 6 ANSWERS - CONTINUE? Y/(N):y
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L8 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 1
ACCESSION NUMBER: 2003:300424 CAPLUS
DOCUMENT NUMBER: 138:316887
TITLE: Stabilization of radiopharmaceutical compositions using hydrophilic thioethers
INVENTOR(S): Cyr, John E.; Pearson, Daniel A.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 19 pp., Cont.-in-part of Appl. No. PCT/US01/50423.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003072709	A1	20030417	US 2002-131543	20020424
WO 2002060491	A2	20020808	WO 2001-US50423	20011024

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2000-694992 A2 20001024
WO 2001-US50423 A2 20011024
US 2000-695360 A1 20001024
US 2000-695494 A1 20001024
OTHER SOURCE(S): MARPAT 138:316887
AB Radiopharmaceutical compns. which are stabilized by addn. of a hydrophilic
thioether (Markush structures are included).

L8 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2003:435053 CAPLUS
DOCUMENT NUMBER: 139:12393
TITLE: Stabilization of radiopharmaceutical compositions using hydrophilic 6-hydroxychromans
INVENTOR(S): Cyr, John E.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 17 pp., Cont.-in-part of Appl. No. PCT/US01/50423.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003103899	A1	20030605	US 2002-131346	20020424
WO 2002060491	A2	20020808	WO 2001-US50423	20011024

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2000-695360 A2 20001024
WO 2001-US50423 A2 20011024
US 2000-694992 A1 20001024
US 2000-695494 A1 20001024
AB A compn. comprising a peptide or non-peptide radiopharmaceutical precursor
and a stabilizing amt. of a hydrophilic 6-hydroxychroman deriv., e.g., 6-hydroxy-2,5,7,8-tetramethylchroman-2-carboxylic acid (Trolox), is described. A kit comprising a sealed vial contg. a predetd. quantity of a
radiopharmaceutical precursor and a stabilizing amt. of a hydrophilic 6-hydroxychroman deriv. is also described. For example, Trolox increased the radiolabeling yield and the stability of 99mTc depreotide prepd. from the kit.

L8 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2003:435052 CAPLUS
DOCUMENT NUMBER: 139:12392
TITLE: Stabilization of radiopharmaceutical compositions using hydrophilic thioethers and hydrophilic 6-hydroxychromans
INVENTOR(S): Cyr, John E.; Pearson, Daniel A.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 17 pp., Cont.-in-part of Appl. No. PCT/US01/50423.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003103895	A1	20030605	US 2002-131546	20020424
WO 2002060491	A2	20020808	WO 2001-US50423	20011024

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2000-695494 A2 20001024
WO 2001-US50423 A2 20011024
US 2000-694992 A1 20001024
US 2000-695360 A1 20001024
AB A compn. contg. a peptide or non-peptide radiopharmaceutical precursor and
a stabilizing amt. of a mixt. of a hydrophilic thioether and a hydrophilic
6-hydroxychroman deriv. is described. The thioether is selected from, e.g., methionine, ethionine, 3-(methylthio)propionaldehyde, 2-(ethylthio)ethylamine, buthionine, S-methyl-cysteine, and methioninol. The hydrophilic 6-hydroxychroman used is, e.g., 6-hydroxy-2,5,7,8-tetramethylchroman-2-carboxylic acid or 6-hydroxy-2,5,7,8-tetramethylchroman-2-glucosamine. A kit comprising a sealed vial contg. a
predetd. quantity of a radiopharmaceutical precursor and a stabilizing amt. of a mixt. of a hydrophilic thioether and a hydrophilic 6-hydroxychroman deriv. is also described. For example, the combination of L-methionine and Trolox increased the radiolabeling yield and the stability of 99mTc depreotide prepd. from the kit.

L8 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:594711 CAPLUS
DOCUMENT NUMBER: 137:159312
TITLE: Stabilization of radiopharmaceutical compositions using hydrophilic thioethers and hydrophilic 6-hydroxy
chromans
INVENTOR(S): Cyr, John E.; Pearson, Daniel A.
PATENT ASSIGNEE(S): Diatide, Inc., USA
SOURCE: PCT Int. Appl., 64 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002060491	A2	20020808	WO 2001-US50423	20011024

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
US 2003072709 A1 20030417 US 2002-131543 20020424
US 2003103899 A1 20030605 US 2002-131346 20020424
US 2003103895 A1 20030605 US 2002-131546 20020424

PRIORITY APPLN. INFO.: US 2000-694992 A1 20001024
US 2000-695360 A1 20001024
US 2000-695494 A1 20001024
WO 2001-US50423 A2 20011024
AB Radiopharmaceutical compns. which are stabilized by addn. of a hydrophilic
thioether, a hydrophilic 6-hydroxy-chroman deriv., or a mixt. of a hydrophilic thioether and a hydrophilic 6-hydroxy-chroman deriv. are described. Several examples are provided demonstrating the stabilizing effects of L-methionine, Trolox, or a combination of the two on lyophilized kit prepns. contg. 99mTc-labeled depreotide, benzodiazepinedione deriv., a glycoprotein IIb/IIa receptor-binding peptide, a peptide chelator, a bisamine bisthiol chelator, or other peptides.

L8 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:694638 CAPLUS
DOCUMENT NUMBER: 137:366262
TITLE: Inhibition of adhesion of type 1 fimbriated Escherichia coli to highly mannosylated ligands
AUTHOR(S): Nagahori, Noriko; Lee, Reiko T.; Nishimura, Shin-Ichiro; Page, Daniel; Roy, Rene; Lee, Yuan C.
CORPORATE SOURCE: Laboratory of Bioorganic Chemistry & Glycoclusters, Division of Biological Sciences, Graduate School of Science, Hokkaido University, Sapporo, 060-0810, Japan
SOURCE: ChemBioChem (2002), 3(9), 836-844
CODEN: CBCHFX; ISSN: 1439-4227
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The inhibitory potencies of a no. of mannosides, di- and trivalent mannosides, a set of mannose-terminating dendrimers, and five types of mannose-bearing neoglycoproteins were detd. by using a binding assay that measures the binding of 125I-labeled, highly mannosylated neoglycoprotein to a type 1 fimbriated Escherichia coli (K12) strain in suspension. The IC50 values (the concn. of inhibitor that causes 50% redn. in the bound 125I-ligand to E. coli) obtained by this method were much lower than the equiv. values obtained by hemagglutination or in assays that involve microplate immobilization. Two important factors that strongly influence the affinity to E. coli adhesin are: 1) the presence of an .alpha.-oriented aglycon that has a long aliph. chain or an arom. group immediately next to the glycosyl oxygen, and 2) the presence of multiple mannosyl residues that can span a distance of 20 nm or longer on a relatively inflexible structure. The two best inhibitors, which are a highly mannosylated neoglycoprotein with the longest linking arm between a mannose and protein amino group and the largest mannosylated dendrimer (fourth generation), exhibited sub-nM IC50 values.
REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1995:837262 CAPLUS
DOCUMENT NUMBER: 124:56665
TITLE: Design of metal ion binding peptides
AUTHOR(S): Fattorusso, R.; Morelli, G.; Lombardi, A.; Nastri, F.; Maglio, O.; D'Auria, G.; Pedone, C.; Pavone, V.
CORPORATE SOURCE: Res. Cent. Bioactive Peptides, Univ. Naples Federico II, Naples, 80134, Italy
SOURCE: Biopolymers (1995), 37(6), 401-10
CODEN: BIPMAA; ISSN: 0006-3525
PUBLISHER: Wiley
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Two cyclic and branched peptides (PLA and AZU) were synthesized with the aim of reproducing the active site of the blue copper proteins plastocyanin and azurin. Both peptides, designed on the basis of the X-ray structures of Poplar plastocyanin and Alcaligenes denitrificans azurin, contain the same coordinating residues of the parent native proteins. The visible spectra of PLA in the presence of equimolar amt. of Cu(II) strongly support the interaction between the peptide and copper(II) ion. The CD titrn. of AZU with the Hg(II) ion indicates the formation of two species, [AZUHg]+ and [AZUHg2]3+ having binding consts. (Keq) of 3.106 and 2.104 M-1, resp.

```
=> s l8 and (radionuclid? or radiolabel? or label? or radioisotop? or radioactiv?)
L9            5 L8 AND (RADIONUCLID? OR RADIOLABEL? OR LABEL? OR RADIOISOTOP?
                OR RADIOACTIV?)

=> d ibib ab 1-
YOU HAVE REQUESTED DATA FROM 5 ANSWERS - CONTINUE? Y/(N):y
```

L9 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2003:435053 CAPLUS
DOCUMENT NUMBER: 139:12393
TITLE: Stabilization of radiopharmaceutical compositions using hydrophilic 6-hydroxychromans
INVENTOR(S): Cyr, John E.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 17 pp., Cont.-in-part of Appl. No. PCT/US01/50423.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003103899	A1	20030605	US 2002-131346	20020424
WO 2002060491	A2	20020808	WO 2001-US50423	20011024

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2000-695360 A2 20001024
WO 2001-US50423 A2 20011024
US 2000-694992 A1 20001024
US 2000-695494 A1 20001024

AB A compn. comprising a peptide or non-peptide radiopharmaceutical precursor and a stabilizing amt. of a hydrophilic 6-hydroxychroman deriv., e.g., 6-hydroxy-2,5,7,8-tetramethylchroman-2-carboxylic acid (Trolox), is described. A kit comprising a sealed vial contg. a predetd. quantity of a radiopharmaceutical precursor and a stabilizing amt. of a hydrophilic 6-hydroxychroman deriv. is also described. For example, Trolox increased the **radiolabeling** yield and the stability of 99mTc depreotide prepd. from the kit.

L9 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2003:435052 CAPLUS
DOCUMENT NUMBER: 139:12392
TITLE: Stabilization of radiopharmaceutical compositions using hydrophilic thioethers and hydrophilic 6-hydroxychromans
INVENTOR(S): Cyr, John E.; Pearson, Daniel A.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 17 pp., Cont.-in-part of Appl. No. PCT/US01/50423.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003103895	A1	20030605	US 2002-131546	20020424
WO 2002060491	A2	20020808	WO 2001-US50423	20011024

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2000-695494 A2 20001024
WO 2001-US50423 A2 20011024
US 2000-694992 A1 20001024
US 2000-695360 A1 20001024

AB A compn. contg. a peptide or non-peptide radiopharmaceutical precursor and a stabilizing amt. of a mixt. of a hydrophilic thioether and a hydrophilic 6-hydroxychroman deriv. is described. The thioether is selected from, e.g., methionine, ethionine, 3-(methylthio)propionaldehyde, 2-(ethylthio)ethylamine, buthionine, S-methyl-cysteine, and methioninol. The hydrophilic 6-hydroxychroman used is, e.g., 6-hydroxy-2,5,7,8-tetramethylchroman-2-carboxylic acid or 6-hydroxy-2,5,7,8-tetramethylchroman-2-glucosamine. A kit comprising a sealed vial contg. a predetd. quantity of a radiopharmaceutical precursor and a stabilizing amt. of a mixt. of a hydrophilic thioether and a hydrophilic 6-hydroxychroman deriv. is also described. For example, the combination of L-methionine and Trolox increased the **radiolabeling** yield and the stability of 99mTc depreotide prepd. from the kit.

L9 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2003:300424 CAPLUS
DOCUMENT NUMBER: 138:316887
TITLE: Stabilization of radiopharmaceutical compositions using hydrophilic thioethers
INVENTOR(S): Cyr, John E.; Pearson, Daniel A.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 19 pp., Cont.-in-part of Appl. No. PCT/US01/50423.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003072709	A1	20030417	US 2002-131543	20020424
WO 2002060491	A2	20020808	WO 2001-US50423	20011024

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2000-694992 A2 20001024
WO 2001-US50423 A2 20011024
US 2000-695360 A1 20001024
US 2000-695494 A1 20001024

OTHER SOURCE(S): MARPAT 138:316887
AB Radiopharmaceutical compns. which are stabilized by addn. of a hydrophilic thioether (Markush structures are included).

L9 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:694638 CAPLUS
DOCUMENT NUMBER: 137:366262
TITLE: Inhibition of adhesion of type 1 fimbriated Escherichia coli to highly mannosylated ligands
AUTHOR(S): Nagahori, Noriko; Lee, Reiko T.; Nishimura, Shin-Ichiro; Page, Daniel; Roy, Rene; Lee, Yuan C.
CORPORATE SOURCE: Laboratory of Bioorganic Chemistry & Glycoclusters, Division of Biological Sciences, Graduate School of Science, Hokkaido University, Sapporo, 060-0810, Japan
SOURCE: ChemBioChem (2002), 3(9), 836-844
CODEN: CBCHFX; ISSN: 1439-4227
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The inhibitory potencies of a no. of mannosides, di- and trivalent mannosides, a set of mannose-terminating dendrimers, and five types of mannose-bearing neoglycoproteins were detd. by using a binding assay that measures the binding of 125I-**labeled**, highly mannosylated neoglycoprotein to a type 1 fimbriated Escherichia coli (K12) strain in suspension. The IC50 values (the concn. of inhibitor that causes 50% redn. in the bound 125I-ligand to E. coli) obtained by this method were much lower than the equiv. values obtained by hemagglutination or in assays that involve microplate immobilization. Two important factors that strongly influence the affinity to E. coli adhesin are: 1) the presence of an .alpha.-oriented aglycon that has a long aliph. chain or an arom. group immediately next to the glycosyl oxygen, and 2) the presence of multiple mannosyl residues that can span a distance of 20 nm or longer on a relatively inflexible structure. The two best inhibitors, which are a highly mannosylated neoglycoprotein with the longest linking arm between a mannose and protein amino group and the largest mannosylated dendrimer (fourth generation), exhibited sub-nM IC50 values.
REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:594711 CAPLUS
DOCUMENT NUMBER: 137:159312
TITLE: Stabilization of radiopharmaceutical compositions using hydrophilic thioethers and hydrophilic 6-hydroxy chromans
INVENTOR(S): Cyr, John E.; Pearson, Daniel A.
PATENT ASSIGNEE(S): Diatide, Inc., USA
SOURCE: PCT Int. Appl., 64 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002060491	A2	20020808	WO 2001-US50423	20011024
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003072709	A1	20030417	US 2002-131543	20020424
US 2003103899	A1	20030605	US 2002-131346	20020424
US 2003103895	A1	20030605	US 2002-131546	20020424

PRIORITY APPLN. INFO.:
US 2000-694992 A1 20001024
US 2000-695360 A1 20001024
US 2000-695494 A1 20001024
WO 2001-US50423 A2 20011024

AB Radiopharmaceutical compns. which are stabilized by addn. of a hydrophilic thioether, a hydrophilic 6-hydroxy-chroman deriv., or a mixt. of a hydrophilic thioether and a hydrophilic 6-hydroxy-chroman deriv. are described. Several examples are provided demonstrating the stabilizing effects of L-methionine, Trolox, or a combination of the two on lyophilized kit prepns. contg. 99mTc-labeled depreotide, benzodiazepinedione deriv., a glycoprotein IIb/IIa receptor-binding peptide, a peptide chelator, a bisamine bisthiol chelator, or other peptides.

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=> FIL STNGUIDE
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                        260.32     281.26

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
                                                           ENTRY    SESSION
CA SUBSCRIBER PRICE                                         -7.81      -7.81

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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jul  4, 2003 (20030704/UP).

=> s l4 and (radionuclid? or radiolabel? or label? or radioactiv?)
'SQEFP' IS NOT A VALID FIELD CODE
             0 'GLY-PRO-ARG'/SQEFP
             0 'GLY-PRO-ARG-PRO-PRO'/SQEFP
             1 RADIONUCLID?
             0 RADIOLABEL?
           171 LABEL?
             2 RADIOACTIV?
L10          0 L4 AND (RADIONUCLID? OR RADIOLABEL? OR LABEL? OR RADIOACTIV?)

=> fil .search
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                                                           ENTRY    SESSION
FULL ESTIMATED COST                                          0.42     281.68

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
                                                           ENTRY    SESSION
CA SUBSCRIBER PRICE                                          0.00      -7.81

FILE 'MEDLINE' ENTERED AT 09:13:08 ON 07 JUL 2003

FILE 'CAPLUS' ENTERED AT 09:13:08 ON 07 JUL 2003
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FILE 'EMBASE' ENTERED AT 09:13:08 ON 07 JUL 2003
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=> s l4 and (radionuclid? or radiolabel? or label? or radioactiv?)
L11          0 L4 AND (RADIONUCLID? OR RADIOLABEL? OR LABEL? OR RADIOACTIV?)

=> fil hcaplus
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
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FULL ESTIMATED COST 10.96 292.64

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-7.81

FILE 'HCAPLUS' ENTERED AT 09:13:48 ON 07 JUL 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 7 Jul 2003 VOL 139 ISS 2
FILE LAST UPDATED: 6 Jul 2003 (20030706/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> s thakur m?/au
L12         431 THAKUR M?/AU

=> s l12 and fibrin?
          49229 FIBRIN?
L13           2 L12 AND FIBRIN?

=> d ibib ab 1-
YOU HAVE REQUESTED DATA FROM 2 ANSWERS - CONTINUE? Y/(N):y
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L13 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2000:133431 HCAPLUS
DOCUMENT NUMBER: 132:162909
TITLE: Imaging with Tc-99m labeled **fibrin** -alpha-chain peptide
INVENTOR(S): **Thakur, Madhukar L.**
PATENT ASSIGNEE(S): Thomas Jefferson University, USA
SOURCE: PCT Int. Appl., 29 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000009076	A2	20000224	WO 1999-US19011	19990817
WO 2000009076	A3	20000511		
W: CA, JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 1105164	A2	20010613	EP 1999-966745	19990817
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				

PRIORITY APPLN. INFO.: US 1998-96803P P 19980817
WO 1999-US19011 W 19990817
OTHER SOURCE(S): MARPAT 132:162909
AB The present invention involves compns. for radiolabeled agents for imaging mammalian tissue or cells, compns. for radiolabeling agents that bind to mammalian tissue or cells, compns. for radiolabeling agents that bind to **fibrin**, and methods of using said compns. Examples are given of deep venous thrombosis and pulmonary embolism scintigraphy using 99mTc-labeled decapeptide Gly-Pro-Arg-Pro-Pro-Aba-Gly-Gly-(D)-Ala-Gly (Aba = 4-aminobutyric acid).

L13 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2003 ACS (Continued)
investigation.
REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2000:80114 HCAPLUS
DOCUMENT NUMBER: 133:55379
TITLE: Imaging vascular thrombosis with 99mTc-labeled **fibrin** .alpha.-chain peptide
AUTHOR(S): **Thakur, Mathew L.**; Pallela, Venkat R.; Consigny, P. Macke; Rao, Ponugoti S.; Vessileva-Belnikolovska, Donka; Shi, Ron
CORPORATE SOURCE: Department of Radiology, Thomas Jefferson University Hospital, Philadelphia, PA, 19107, USA
SOURCE: Journal of Nuclear Medicine (2000), 41(1), 161-168
CODEN: JNMEAQ; ISSN: 0161-5505
PUBLISHER: Society of Nuclear Medicine, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB An agent that permits scintigraphic detection of chronic deep venous thrombosis (DVT) or pulmonary embolism (PE) would be a welcome addn. to the armamentarium of nuclear medicine. Because **fibrin** is the integral part of each clot, old or fresh, we hypothesized that a 99mTc-labeled **fibrin** .alpha.-chain N-terminal peptide, Gly-Pro-Arg-Pro-Pro, that binds to the C-terminal portion of the .gamma.-chain of **fibrin** can detect DVT and PE. Methods: The peptide was modified to Gly-Pro-Arg-Pro-Pro-Aba-Gly-Gly-(D)-Ala-Gly to permit efficient binding of 99mTc (99mTc-TP 850). The stability of the peptide was examd. in vitro as well as in vivo. The ability of the agent to bind to rabbit, dog, and human **fibrin** and to inhibit ADP-induced platelet aggregation was examd. Blood clearance and 3-h tissue distribution were studied. DVT was induced in 8 rabbits using a stimulating electrode and in 2 rabbits by inserting a thrombin-soaked suture. PE was induced in 6 addnl. rabbits by introducing tantalum-impregnated blood clots into the right atrium, and the rabbits were radiographed to locate the emboli. 99mTc-TP 850 was then injected through a lateral ear vein, and each rabbit was imaged for up to 3 h. The rabbits were then killed, the heart and lungs were dissected and radiographed and the clots were harvested so that clot-to-blood radioactivity ratios could be detd. Results: The peptide analog permitted efficient incorporation of 99mTc, which was stable in vitro and in vivo. The blood clearance was biphasic, with an .alpha. phase half-life of approx. 4 min (20%) and a .beta. phase half-life of approx. 13 min (88%). The mean binding of 99mTc-TP 850 to human, dog, and rabbit **fibrin** was 46% .+-. 2%, 60% .+-. 3%, and 56% .+-. 2.5%, resp., and the inhibitory concn. of 50% for dog and rabbit platelet aggregation was 236 .mu.m and 167 .mu.m, resp. All clots, including 24-h-old pulmonary emboli, were delineated. The radioactivity assocd. with clots varied from 0.01 to 0.09 %ID/g, with clot-to-blood radioactivity ratios ranging from 1.2 to 12.0. However, 48-h-old pulmonary emboli had lysed and were seen neither by radiog. nor by scintigraphy. Conclusion: A **fibrin** .alpha.-chain, N-terminal peptide that binds to the C-terminal portion of the .gamma.-chain of **fibrin** has been modified and labeled with 99mTc. The resultant peptide is stable in vitro and in vivo; binds to human, dog, and rabbit **fibrin** in large quantities; and inhibits platelet aggregation. The peptide clears rapidly from the blood and delineates exptl. DVT and PE in rabbits. This agent is worthy of further